## ABSTRACT OF THE DISCLOSURE

An electrochemical device for providing an electric energy by converting an electron transfer involved in an oxidation-reduction reaction into an electric energy comprising a positive electrode, a negative electrode and an electrolyte, wherein at least one of the positive and negative electrodes comprises a compound having a structure represented by the general formula (1):

$$R^{1}$$
 $X^{1}$ 
 $X^{2}$ 
 $X^{4}$ 
 $X^{2}$